



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

C3-13-5
Job Sheet 187692



Part No: C3-13-5

Job Qty: 53 ea

Part Name: Spring, Keeper



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 12/11/18

Job Tracking No:

Due Date: 1/17/19

Created By: Chantal Lavoie

Type: Stock

Description:

Note: DWG C3-13-5 Rev. 2 IPP Rev. A 18.09.19 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	53 pcs		1/17/19	0.00	0.00	Purchasing		JAN 18 2019
110	Packaging	53 pcs		1/17/19	0.00	0.00	Packaging2		JAN 18 2019
120	QC	53 pcs		1/17/19	0.00	0.00	QC6		JAN 18 2019 68
130	Packaging	53 pcs		1/17/19	0.00	0.00	Packaging3		9-89
140	QC21-FG	53 Ea		1/17/19	0.00	0.00	QC21		JAN 21 2019

Part Op 120 - Dimensional check. Ensure springs are bent as per DWG.
Descriptions:

PO Details

Dendoff Springs LTD. (den002-vc)



PO No: PO042029

Line No: 1

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
C3-13-5P	Keeper Spring	53 pcs (1 ea)	100-Purchasing	5146021

P/O : 42029 53 pcs

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	C3-13-5P	53	0	0

Part Specifications

Container No: S146022

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com



Part: C3-13-5
Job No: 187692
Serial No/Batch: S146022
Revision: 2
Inspector:
Exp Date:
Instructions:

Date: 01/18/19

Specifications could not be found.

Plex 1/18/19 1:37 PM dart.belanger.natasha



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Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

C3-13-5
Job Sheet 187692



Part No: C3-13-5

Job Qty: 50 ea

Part Name: Spring, Keeper



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 12/11/18

Job Tracking No:

Due Date: 1/17/19

Created By: Chantal Lavoie

Type: Stock

Description:

Note: DWG C3-13-5 Rev. 2 IPP Rev. A 18.09.19 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	50 pcs		1/17/19			VIC002-VC	20	
110	Packaging	50 pcs		1/17/19	0.00	0.00	Packaging2		
120	QC	50 pcs		1/17/19	0.00	0.00	QC6		
130	Packaging	50 pcs		1/17/19	0.00	0.00	Packaging3		
140	QC21-FG	50 Ea		1/17/19	0.00	0.00	QC21		

Part Op Descriptions: **120** - Dimensional check. Ensure springs are bent as per DWG.

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
C3-13-5P	Keeper Spring	50 pcs (1 ea)	100-Purchasing	
		<i>P/O: 42029</i>	<i>DAS 13 9-89</i>	<i>DEC 11 2018</i>
				<i>x 50 pcs</i>

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	C3-13-5P	50	0	0

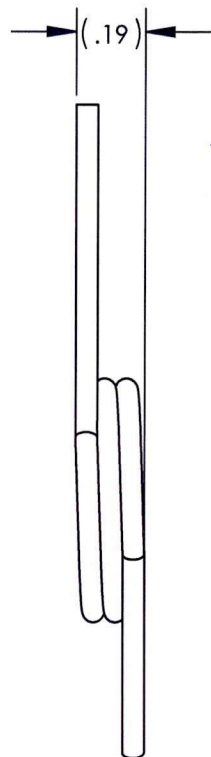
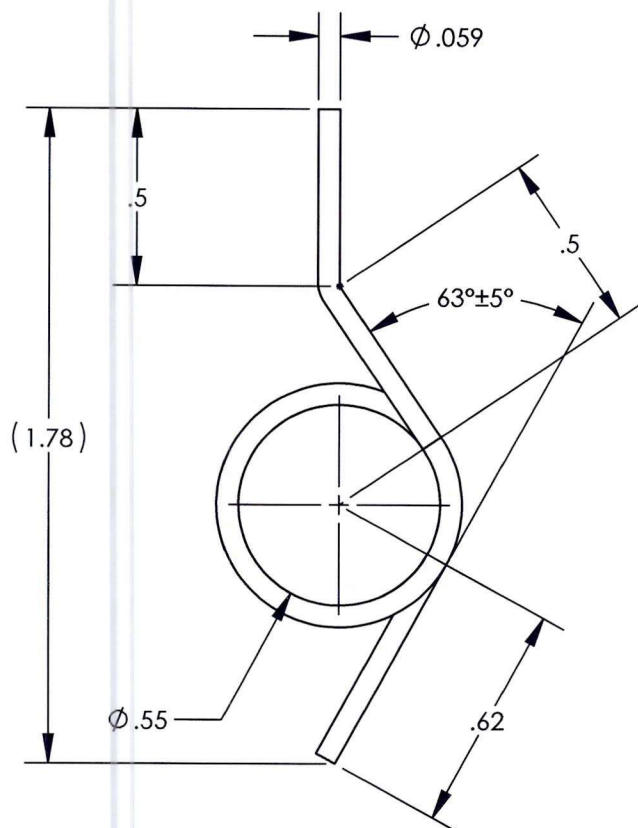
Part Specifications

Specifications could not be found.

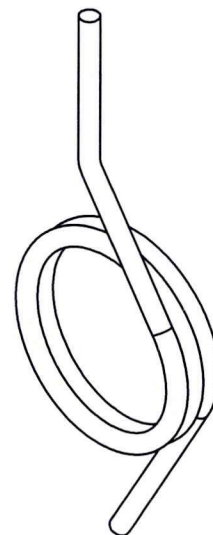
Plex 12/11/18 3:13 PM dart.lavoie.chantal

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1	14-0160	CH'D TITLE BLOCK WAS RED BARN IS DART. CH'D DIMS WAS .870 IS .62, WAS 2.003 IS 1.77, WAS (Ø.059) IS Ø.06. CH'D TOLERANCE ON NON-CRITICAL DIMENSIONS.	9/23/2014	DPD	JAG
2	17-0055	REVERSED COIL DIRECTION. REMOVED JOG. CH'D TOLERANCES WAS ±.005 IS ±.010, WAS ±.01 IS ±.03. CH'D DIMS WAS Ø.06 IS Ø.059, WAS .50 IS .5, WAS .50 IS .5, WAS 63° IS 63°±5°, WAS Ø.546 IS Ø.55, WAS .17 IS .187, WAS 1.77 IS (1.78). DELETED DIM .332.	3/3/2017	DPD	JAG



*sent e-mail.
victory.
spring
re-uah*



sent aut Auto Dendoff

DEC 05 2018

DART AEROSPACE	
TITLE KEEPER SPRING	
DWG NO. C3-13-5	REV 2
MAT'L 303 S.S. HEAT TREAT FINISH SPEC DRAWN BY: CANAM CHECKED: RJC 03/06/2017 OPPTS APPR: AA 03/09/2017 QA APPR: JL 03/16/2017 APPROVED: JAG 04/03/2017	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125/	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL	
SCALE 2:1	DATE 7/12/2012 SHEET 1 OF 1

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS
		B/O	C3-13-5	1	KEEPER SPRING	303 S.S.	DENDOFF



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042029



Supplier: DEN002-VC
Dendoff Springs LTD.
12045 Old Yale Road
Surrey
BC
V3V 3X4
Phone: 604 580 3400
Fax: 604 580 3600

PO No: PO042029
PO Date: 12/12/18
Due Date: 1/21/19
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Fedex Economy
Pymt Terms: Net 30
Freight Terms: Collect
Special Comments: quote no. 26349

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	187692	C3-13-5P			Keeper Spring AS PER DWG C3-13-5 REV. 2	Firmed	-	1/21/19	53 pcs	0 pcs	53 pcs	\$7.85/pcs	\$416.05

53 x JAN 18 2019

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Line Item Note TORSION TO DWG C3-13-5
0.059" T302
0.500" ID +/- .015"
0.668" OD
1.125 NT REF. - RHW
ARM ORIENTATION TO DWG. +/- 5 DEG.
ARM LENGTH TOL. +/- .032"
PLAIN FINISH

Grand Total: \$416.05

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Procurement Quality Clauses

- A005 RIGHT OF ENTRY
- A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)
- A012 CHEMICAL AND PHYSICAL TEST REPORTS
- A016 PERSONNEL QUALIFICATION
- A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
- A026 CERTIFICATION OF MATERIAL CONFORMANCE
- A041 QUALITY MANAGEMENT SYSTEM
- A042 DART NOTIFICATION BY SUPPLIER
- A043 RETENTION OF QUALITY DOCUMENT
- A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
- A049 SUPPLIER AWARENESS



DENDOFF SPRINGS LTD.
12045 OLD YALE ROAD
SURREY, BC V3V 3X4
Canada

Ph: 604-580-3400

Fax: 604-580-3600

Pack List

Number: 53272

Date: 16-Jan-19

To

DART AEROSPACE LTD
1270 Aberdeen St
Hawkesbury,, ON K6A 1K7
Canada

Ship To

Chantal Lavoie
DART AEROSPACE LTD
1270 Aberdeen St
Hawkesbury,, ON K6A 1K7
Canada

Ph: 613-632-5200

Fax: 613-632-4443

Ph: 613-632-5200

Fax: 613-632-4443

Terms		Ship Via	
Net 30 days		Fed Ex	
Quantity	Description		
53 ea	Part: DART-002 C3-13-5 KEEPER SPRING Job: 74416 MATERIAL P.O. # 17945 .059" STAINLESS T302 HEAT # KNAX01107 Signature <u>B. Millard</u> DQR-057 Rev. 0 May 2003		

PO: PO042029

Rev:

Line:



Wire & Steel Company
of Canada, Ltd

250 CHRYSLER DRIVE, UNIT #1, BRAMPTON, ONTARIO L6S 5B6
TEL: (905) 791-6811 / 1-800-367-2441-FAX: (905) 791-9588
SLITTING, OSCILLATING, EDGING AND CUSTOM PROCESSING
INDUSTRY'S CHOICE FOR QUALITY

Customer PO#: 17945

Page: 1 Of 1

Date Ordered: 09-Apr-2018

Sales Rep: Jonathan

Customer #: 13485

Description: T302 Soap Coat Stainless Wire Spring .0590

Size: .059" x Coil

Edge:

Qty Ordered: 25.00

Specification: ASTM A 313-17

Gibbs Product Code: 811-18-0590-01

Size Tolerance:

Customer Part #:

Material Certification

Qty Shipped: 26.00

Coils: 1

Heat #: knax01107

C: .0740

Mn: 1.1100

P: .0300

S: .0010

Si: .3100

Cu: .3400

Ni: 8.0200

Cr: 18.060

Mo: .2750

V:

Sn:

Ti:

Al:

Be:

N: .0610

Tensile: 277,800 / 277,800

Yield: N.A. / N.A.

Elong.: N.A. / N.A.

Hardness : N.A. / N.A.

Grain: N.A. / N.A.

Cond. Ch900 : N.A. / N.A.

Comments:

Melt - USA

DFARS & ROHS Compliant

Koswire

Paul Scott

Quality Department

Based on our Supplier's analysis

Q405, Rev. No. 001/07 BR 03/06/07

The order will be billed at the price prevailing at the time of shipment

Packing List #: 130763

Sch'd to Ship: Apr 11 2018

Ship To: Dendoff Springs Ltd
12045 Old Yale Road
Surrey

British Columbia, V3V 3X4

Ship Via: Western Canada Exp

F.O.B.: Brampton

Terms: Collect

Sold To: Dendoff Springs Ltd
12045 Old Yale Road
Surrey, British Columbia
V3V 3X4

Quantity Shipped (lbs): 26.00

Gross Weight (lbs): 0.00

Packaging Description: 129732

Shipper: Gibbs Wire & Steel

Per: _____

Date: _____

Agent: _____

Per: _____

Date: _____

All claims for shortages must be made with 10 days.
Goods may NOT be returned without a
Gibbs authorization number.

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